ABSTRACT

The present invention aims to increase concentration of Zn in a coating layer to enhance machining speed. Moreover, the present invention aims to perform removal of object material efficiently and enhance machining speed as well as accuracy in machining by increasing rigidity of the wire electrode to suppress vibration thereof during machining process.

The present invention is characterized in that the wire electrode for wire electrical discharge machine is constituted as a three-layered structure of an electroconductive core (1), a coating layer (2) of Cu-Zn intermetaric compound in other than α phase and a coating layer (3) of Cu-Zn alloy in α phase on the exterior of the coating layer (2), and that the thickness of the coating layer (3) is set to 5 to 15 μm. Furthermore, the coating layer (2) is preferably Cu-Zn alloy in β phase. Moreover, the core (1) is preferably made of Cu-Zr alloy.